Index to Volume 76

The Journal of Heredity, 1985

Aberrant segregation of R-locus genes in male progeny from incompatible crosses in *Mormoniella*, S. L. Ryan, G. B. Saul II, and G. W. Conner, 21.

Ahmed, F. and J. G. M. Shire, Lysosomal mutations inhibit lipofuscinosis of the spleen in C57BL mice, 311.

Akhtar, K., et al: Four new mutations and a linkage map of species A of *Anopheles culicifacies*, 140; Two new mutations and a linkage map of *Anopheles stephensi*, 205.

Allard, R. W. and N. O. Polans, Inheritance of electrophoretically detectable variants in ryegrass, 61.

Alvarez, M. R. and J. A. Giewartowski, Cytological evidence of transient sex chromatin decondensation during compensatory hypertrophy in rat livers, 361.

Amirkhanian, J. D. and J. W. Cowan, Mapping genes by meiotic and UV-induced mitotic recombination in *Coprinus cinereus*, 348.

Anderson, V. L., et al., Logistic growth curve of chickens: comparison of techniques to estimate parameters, 397.

Animal Genetics

Biomphalaria straminea: population genetics of a neotropical schistosome-transmitting snail in Hong Kong, 355.

Camelids: chromosome banding pattern homologies and NORs for the Bactrian camel, guanaco, 115; NOR regions in the llama, 222; blood typing South American guanacos, llamas, and guanacos/llama hybrids, 369.

Cats: gametic disequilibrium between unlinked loci, 127; fertile male tortoiseshell, 137; autosomal dominant progressive retinal atrophy in Abyssinian, 168; mutant allele frequencies in rural Wisconsin cats—a correction, 216.

Cattle: autosomal recessive inheritance of congenital goiter in Afrikander, 12.

Cochliomyia hominivorax: polytene chromosomes of screw-worm fly, 132.

Dogs: Chinese crested, 217; harlequin color in Great Danes, 224; tweed, a modification of merle, in Australian shepherds, 303; heritable syndrome of skeletal defects in a family of Australian shepherds, 393.

Drosophila: localization of dosage-sensitive region for pyruvate kinase in *D. melanogaster*, 39; genetic aspects of aflatoxin B_1 resistance in *D. melanogaster*, 85; murine antibody induced-sex-ratio changes in *D. melanogaster*, 220; inversion polymorphism of Mexican *D. pseudoobscura*, 258.

Equus: inheritance of serum albumin variants in hybrid offspring of *E. asinus*, 73; red dun dilution in the horse, 138; nuclear cataracts in the Morgan horse, 371; cell synchronization and dynamic G-banding of horse chromosomes by bromodeoxyuridine, 375; high resolution R-bands produced in horse chromosomes after incorporation of bromodeoxyuridine, 377; male qualifies as the offspring of a female mule and jack donkey, 379.

Fish: homozygosity and interstrain variation in self-fertilizing hermaphroditic *Rivulus marmoratus*, 82; production of androgenetic diploid rainbow trout, 177; triploid progeny of pumpkinseed × green sunfish hybrids, 251; trunk striping in the Sumatran tiger barb, *Barbus tetrazona*, 478.

Fowl: influence of selection and its relaxation on diet-induced thermogenesis in female chickens, 65; linkage of the major histocompatibility (*B*) complex and the nucleolar organizer in chickens: assignment to a microchromosome, 146; shankless, a new mutation on chromosome 2 in chickens, 182; congenital quiver, an inherited neurological defect in chickens, 263; leukocyte cell populations in hereditary muscular dystrophic chickens, 285; logistic growth curve of chickens: comparison of techniques to estimate parameters, 397; heritability of parameters, 459; ring lethal—an early embryonic failure in medium white turkeys, 474.

Fox sparrow: associations between heterozygosity and morphological variance, 415.

Gerbil: gray mutant in Mongolian, 473.

Grasshoppers: genetics, 325.

Honey bees: new allozyme variability in Italian, 45; selection for high and low pollen-hoarding, 155; heritability of postcapping stage in African *Apis mellifera* and its relation to varroatosis resistance, 267; linkage studies in *Apis mellifera* using biochemical and morphological markers, 427.

Leptopilina heterotoma: sex-ratio changes in response to inbreeding, 209.

Mice: genetic control of red cell osmotic fragility, 31; decreased dopachrome oxidoreductase activity in yellow, 59; effects of 2.45 GHz microwaves on meiotic chromosomes of males, 71; high pressure neurologic syndrome type 2 seizure, 89; congenic strain analysis of genes affecting shape of the murine mandible, 107; osteosclerosis, a recessive skeletal mutation on chromosome 19, 171; linkage of loci affecting a murine liver protein and arysulfatase B to chromosome 13, 243; genetic analysis of crossfostering data with sire and dam records, 247; inherited agent of mutation with chromosome damage in wild mice, 271; lysosomal mutations inhibit lipofuscinosis of the spleen in C57BL, 311; frequency of polymorphisms for alleles encoding for liver proteins, 315; maternal inheritance of mitochondrial DNA during backcrossing of two species, 321; diptheria toxin sensitivity in a human-mouse monochromosomal hybrid containing human chromosome 5, 329; meiotic nondisjunction and translocation segregation in dwarf *(dw/dw)* and control *T(1; 13)70H* heterozygous, 341; similar pigmentation characteristics in the specific locus and the mammalian spot test: a way to distinguish between induced mutation and recombination, 421; location of plucked *(pk)* on chromosome 18, 476; new mutation causing jaundice, 441.

Mormoniella: aberrant segregation of *R*-locus genes in male progeny from incompatible crosses, 21.

Mosquitoes: four new mutations and a linkage map of species A of *Anopheles culicifacies*, 140; two new mutations and a linkage map of *An. stephensi*, 205; homozygous chromosomal aberrations in *An. stephensi*, 231; argentophilic structures of spermatogenesis in *Aedes aegypti*, 295.

Pocket gopher: associations between heterozygosity and morphological variance, 415.

Porcellio dilatatus: independent assortment of four loci in the isopod, 470.

Rat: cytological evidence of transient sex chromatin decondensation during compensatory hypertrophy in livers, 361.

Rhagoletis tabellaria: segregation and linkage of allozymes, 218.

Snake: genetics of color mutations in *Elaphe obsoleta*, 7.

Swine: sex ratio and distribution of sexes, 36; chromosomes of the Chacoan peccary, *Catagonus wagneri* (Rusconi), 95; significance of a diploid number of 20 in the peccary *Catagonus wagneri*, 310; inheritance of melanocytic tumors in Duroc, 385.

Tribolium castaneum: multiple alleles at the black locus, 472; genetic differences between populations for a quantitative trait, 451.

Xenopus laevis: gene-centromere mapping, 345.

Apparent meiotic mutation in a mesophyll cell protoclone of 'Russet Burbank' potato, B. S. Gill, L. N. W. Kam-Morgan, and J. F. Shepard, 17.

Argentophilic structures of spermatogenesis in the yellow fever mosquito, M. A. Motara, S. Pathak, K. L. Satya-Prakash, and T. C. Hsu, 295.

Arrangement of the interphase chromosomes in the nucleus, U. C. Lavania and A. K. Sharma, 395.

Arulsekar, S., et al., Isozyme gene markers in *Juglans* species: inheritance of GPI and AAT in *J. regia* and *J. hindsii*, 103.

Ascher, P. D. and M. N. Dana, Pseudo-self

compatibility (PSC) in *Petunia integrifolia*, 468.
Associations between heterozygosity and morphological variance, R. M. Zink, M. F. Smith, and J. L. Patton, 415.
Atchley, W. R., et al., Genetic analysis of crossfostering data with sire and dam records, 247.
Athwal, R. S., et al., Diphtheria toxin sensitivity in a monochromosomal hybrid containing human chromosome 5, 329.
Auer, H., et al., Nucleolus organizer regions in the chromosomes of the llama, 222.
Autosomal dominant progressive retinal atrophy in Abyssinian cats, K. C. Barnett and R. Curtis, 168.
Autosomal recessive inheritance of congenital goiter in Afrikander cattle, M. H. Ricketts, K. Schulz, A. van Zyl, A. J. Bester, C. D. Boyd, H. Meinhold, and P. P. van Jaarsveld, 12.
Aviv, D. and E. Galun, An in vitro procedure to assign pigment mutations in *Nicotiana* to either the chloroplast or the nucleus, 135.
Axtell, J. and G. Ejeta, Mutant gene in sorghum causing leaf "reddening" and increased protein concentration in the grain, 301.

Bacon, L. D. and S. E. Bloom, Linkage of the major histocompatibility *(B)* complex and the nucleolar organizer in the chicken: assignment to a microchromosome, 146.
Baier, L., et al., Frequency of polymorphisms for alleles encoding for liver proteins of domesticated mice, 315.
Bailey, D. W., Genes that affect the shape of the murine mandible: congenic strain analysis, 107.
Barber J. I., et al., Decreased dopachrome oxidoreductase activity in yellow mice, 59.
Barnett, K. C. and R. Curtis, Autosomal dominant progressive retinal atrophy in Abyssinian cats, 168.
Barve, S. S. and A. B. Sapre, Typical meiotic nondisjunction and its consequences in *Coix gigantea*, 387.
BASIC programs for estimating coefficients of inbreeding, parentage, and identity, N. M. Cowen, G. P. Weber, K. J. Frey, 401.
Bechtel, E. and H. B. Bechtel, Genetics of color mutations in the snake, *Elaphe obsoleta*, 7.
Bechtel, H. B. and E. Bechtel, Genetics of color mutations in the snake, *Elaphe obsoleta*, 7.
Beech, J. and N. Irby, Inherited nuclear cataracts in the Morgan horse, 371.
Beeman, R. W. and S. M. Nanis, Multiple alleles at the black locus in *Tribolium casteneum*, 472.
Benirschke, K., et al: Chromosomes of the Chacoan peccary, *Catagonus wagneri* (Rusconi), 95; male mule foal qualifies as the offspring of a female mule and jack donkey, 379.
Berlocher, S. H. and B. A. McPheron, Segregation and linkage of allozymes of *Rhagoletis tabellaria*, 218.
Berlocher, S. H. and W. S. Sheppard, New allozyme variability in Italian honey bees, 45.
Bester A. J., et al., Autosomal recessive inheritance of congenital goiter in Afrikander cattle, 12.
Bhasin, M. K., et al., Chromosomal heteromorphisms in Delhi infants: III. Qualitative analysis of C-band inversion heteromorphisms of chromosomes 1, 9, and 16, 55.
Biochemical separations and human genetics: the Wilhelmine E. Key 1984 invitational lecture, H. Harris, 2.
Bird, L. S. and R. G. Percy, Rust resistance expression in cotyledons, petioles, and stems of *Gossypium hirsutum* L., 202.
Birthplace of genetics: a historical note, T. R. Mertens, 67.
Bliss, F. A. and P. Gepts, F_1 hybrid weakness in the common bean, 447.
Blood typing South American camelids, W. J. Miller, P. J. Hollander, and W. L. Franklin, 369.
Bloom, S. E. and L. D. Bacon, Linkage of the major histocompatibility *(B)* complex and the nucleolar organizer in the chicken: assignment to a microchromosome, 146.
Bohren, B. B. and M. Grossman, Logistic growth curve of chickens: heritability of parameters, 459.
Bohren, B. B., et al., Logistic growth curve of chickens: comparison of techniques to estimate parameters, 397.

Books Reviewed:

Chromosomal Variation in Man, a Catalog of Chromosomal Variants and Anomalies, D. S. Borgaonkar, 76.
Crop Genetic Resources: Conservation and Evaluation. J. H. W. Holden and J. T. Williams, Eds., 404.
Evolutionary Biology, Volume 16. M. K. Hecht, B. Wallace, and G. T. Prance, Eds., 403.
Genes: Structure and Expression. A. M. Kroon, Ed., 404.
Genetic Epidemilogy of Coronary Heart Disease: Past, Present, and Future: Progress in Clinical Biological Research, Volume 147, 481.
Mendelian Inheritance in Man, V. A. McKusick, 76.
Molecular Biology of Development, E. H. Davidson and R. A. Firtel, Eds., 481.
Plant Variation and Evolution, D. Briggs and S. H. Walters, 144.

Bowling, A. T. and D. P. Sponenberg, Heritable syndrome of skeletal defects in a family of Australian shepherd dogs, 393.
Bowling, A. T. and L. S. Nickel, Inheritance of *Equus asinus* serum albumin variants in hybrid offspring, 73.
Bowling, A. T., et al., Male mule foal qualifies as the offspring of a female mule and jack donkey, 379.
Boyd, C.D., et al., Autosomal recessive inheritance of congenital goiter in Afrikander cattle, 12.
Branch, W. D., Inheritance of purple and purple-stripe testa colors in the peanut, 225.
Brewbaker, J. L., et al., Genetic polymorphisms of 13 maize peroxidases, 159.
Brown, M. S., et al., *Knob-6*, a cytological marker for chromosome 6 of *Gossypium hirsutum* L., 215.
Bunch, T. D., et al., Chromosome banding pattern homologies and NORs for the Bactrian camel, guanaco, and llama, 115.
Burger, H., et al., Nucleolus organizer regions in the chromosomes of the llama, 222.
Burger, Y., et al., Inheritance of light pigmentation in squash, 305.
Burkhart, J. G., et al., New mutation causing jaundice in mice, 441.
Burton, G. W., et al., Dominant gene for rust resistance in pearl millet, 134.
Buss, W. R., et al., Genetic analysis of the pinna of the human ear, 390.

Capy, P. A principal component analysis program, 401.
Catalog of chromosomal variants in man, R. S. Young (Rev.), 76.
Cell synchronization and dynamic G-banding of equine chromosomes by bromodeoxyuridine, C. L. Richer and A. Romagnano, 375.
Chapco, W., Genetics of grasshoppers, 325.
Chemnick, L. G., et al., Male mule foal qualifies as the offspring of a female mule and jack donkey, 379.
Chinese crested dog, R. Robinson, 217.
Chinnici, J. P. and P. D. Melone, Genetic aspects of aflatoxin B_1 resistance in *Drosophila melanogaster*, 85.
Chi-square and Mendel's experiments: where's the bias?, F. Monaghan and A. Corcos, 307.
Chromosomal and behavioral studies of Mexican *Drosophila:* III. Inversion polymorphism of *D. pseudoobscura*, O. Olvera, R. F. Rockwell, M. E. de la Rosa, M. I. Gaso, F. Gonzalez, J. Guzman, and L. Levine, 258.
Chromosomal heteromorphisms in Delhi infants: III. Qualitative analysis of C-band inversion heteromorphisms of chromosomes 1, 9, and 16, V. R. Potluri, I. P. Singh, and M. K. Bhasin, 55.
Chromosome banding pattern homologies and NORs for the Bactrian camel, guanaco, and llama, T. D. Bunch, W. C. Foote, and A. Maciulis, 115.
Chromosome pairing in tall fescue haploids derived by anther-panicle culture, G. C. Eizenga and M. J. Kasperbauer, 99.
Chromosomes of the Chacoan peccary, *Catagonus wagneri* (Rusconi), K. Benirschke, A. T. Kumamoto, and D. A. Meritt, 95.
Chromosome translocation breakpoint map of the *Gossypium hirsutum* genome, M. Y. Menzel, K. L. Richmond, and B. J. Dougherty, 406.
Cistue, L., et al., Cytological identification of acrotrisomy in sugar beets, 227.
Coat variants in cats: gametic disequilibrium between unlinked loci, P. W. Hedrick, 127.
Cohen, M., et al., Gene-centromere mapping in *Xenopus laevis*, 345.
Collier, G. E. and K. J. Rust, Localization of a dosage sensitive region for pyruvate kinase in *Drosophila melanogaster*, 39.

Computer Programs

BASIC programs for estimating coefficients of inbreeding, parentage, and identity, 401.
FORTRAN program for computing genetic statistics from allelic frequency data, 142.
PASCAL program that calculates heritability estimates using weighted linear regressions, 400.
Principal component analysis program, 401.

Program for calculating genetic distance, and its use in determining significant differences in genetic similarity between two groups and populations, 400.
SAS program for calculating stability-variance parameters, 142.
SNOBOL4 programs for processing genetic records, tracing pedigrees, and sorting genotypes, 143.

Confidence limits for estimates of gene linkage based on analysis of recombinant inbred strains, J. Silver, 436.
Congenital quiver, an inherited neurological defect in the chicken, J. R. Smyth, Jr., M. M. Jerszyk, and N. Montgomery, 263.
Conner, G. W., et al., Aberrant segregation of *R*-locus genes in male progeny from incompatible crosses in *Mormoniella*, 21.
Corcos, A. F. and F. V. Monaghan: Mendel, the empiricist, 49; Role of de Vries in the recovery of Mendel's work: was de Vries really an independent discoverer of Mendel?, 187; Chi-square and Mendel's experiments: where's the bias?, 307; More about Mendel's experiments: where is the bias?, 384.
Cowan, J. W. and J. D. Amirkhanian, Mapping genes by meiotic and UV-induced mitotic recombination in *Coprinus cinereus*, 348.
Cowen, N. M., et al., BASIC programs for estimating coefficients of inbreeding, parentage, and identity, 401.
Craig, L. and L. D. Van Vleck, Evidence for inheritance of the red dun dilution in the horse, 138;
Curtis, R. and K. C. Barnett, Autosomal dominant progressive retinal atrophy in Abyssinian cats, 168.
Cytological evidence of transient sex chromatin decondensation during compensatory hypertrophy in rat livers, J. A. Giewartowski and M. R. Alvarez, 361.
Cytological identification of acrotrisomy in sugar beets, I. Romagosa, L. Cistue, T. Tsuchiya, and J. M. Lasa, 227.
Cytology and reproductive behavior of pearl millet-napiergrass hexaploids × *Pennisetum squamulatum* trispecific hybrids, M. Dujardin and W. W. Hanna, 382.
Czaker, R., et al., Nucleolus organizer regions in the chromosomes of the llama, 222.
Czerski, P., et al., Effects of 2.45 GHz microwaves on meiotic chromosomes of male CBA/CAY mice, 71.

Dana, M. N. and P. D. Ascher, Pseudo-self compatibility (PSC) in *Petunia integrifolia*, 468.
Daniel, W. L., et al., Linkage of loci affecting a murine liver protein and arylsufatese B to chromosome 13, 243.
Dawley, R. M., et al., Triploid progeny of pumpkinseed × green sunfish hybrids, 251.
Decreased dopachrome oxidoreductase activity in yellow mice, J. I. Barber, D. Townsend, D. P. Olds, and R. A. King, 59.
de la Rosa, M. E., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* III. Inversion polymorphism of *D. pseudoobscura*, 258.
Del Lama, M. A., et al., Linkage studies in *Apis mellifera* using biochemical and morphological markers, 427.
Dev, V., et al., Polytene chromosomes of the screw-worm fly, *Cochliomyia hominivorax*, 132.
Dewey, M. J. and N. K. Norman, Genetic control of red cell osmotic fragility, 31.
Dietert, R. R. and B. G. Sanders, Leukocyte cell populations in hereditary muscular dystrophic chickens, 285.
Diez, R., et al., Genetic differences between populations for a quantitative trait: studies with *Tribolium castaneum*, 451.
Diphtheria toxin sensitivity in a monochromosomal hybrid containing human chromosome 5, R. S. Athwal, B. M. Searle, and V. K. Jansons, 329.
Dixon, L. K., et al., Genetic analysis of the pinna of the human ear, 390.
Dominant gene for rust resistance in pearl millet, W. W. Hanna, H. D. Wells, and G. W. Burton, 134.
Dougherty, B. J., et al., Chromosome translocation breakpoint map of the *Gossypium hirsutium* genome, 406.
Dubash, C. J., et al., Four new mutations and a linkage map of species A of *Anopheles culicifacies*, 140.
Dujardin, M. and W. W. Hanna, Cytology and reproductive behavior of pearl millet-napiergrass hexaploids × *Pennisetum squamulatum* trispecific hybrids, 382.
Dunnington, E. A., et al., Influence of selection and its relaxation on diet-induced thermogenesis in female chickens, 65.

Eckhardt, R. B., et al., A PASCAL program that calculates heritability estimates using weighted linear regressions, 400.
Eckhardt, R.B.: The whole earth catalog of genes (Rev.), 76; Evolutionary biology (Rev.), 403.
Effects of 2.45 GHz microwaves on meiotic chromosomes of male CBA/CAY mice, E. Manikowska-Czerska, P. Czerski, and W. M. Leach, 71.
Eicher, E. M. and P. W. Lane, Location of plucked *(pk)* on chromosome 18 of the mouse, 474.
Eisen, E.J., et al., New mutation causing jaundice in mice, 441.
Eizenga, G. C. and M. J. Kasperbauer, Chromosome pairing in tall fescue haploids derived by anther-panicle culture, 99.
Ejeta, G. and J. Axtell, Mutant gene in sorghum causing leaf "reddening" and increased protein concentration in the grain, 301.
Elliott, R. W., et al., Linkage of loci affecting a murine liver protein and arylsulfatase B to chromosome 13, 243.
Erickson, R. P., et al., Frequency of polymorphisms for alleles encoding for liver proteins of domesticated mice, 315.
Esen, A., Gene structure (Rev.), 404.
Evidence for inheritance of the red dun dilution in the horse, L. Craig and L. D. Van Vleck, 138.
Evolutionary biology, R. B. Eckhardt (Rev.), 403.

Fahrig, R. and A. Neuhauser-Klaus, Similar pigmentation characteristics in the specific locus and the mammalian spot test: a way to distinguish between induced mutation and recombination, 421.
Familial appraisal of colorblindness in school children of an Indian population, C. R. Srikumari, J. Rajanikumari, and T. V. Rao, 69.
Fechheimer, N. S. and L. J. Langhorst, Shankless, a new mutation on chromosome 2 in the chicken, 182.
Fedak, G. and P. K. Gupta, Intergeneric hybrids between *Hordeum californicum* and *Triticum aestivum*, 365.
Fernández, J. A. and N. Jouve, Meiotic pairing in hybrids of 6x-Triticale and the amphiploid *Hordeum chilense* × *Triticum turgidum* conv. *durum*, 63.
Fertile male tortoiseshell cats, R. Robinson, 137.
Fominaya, A. and N. Jouve, Metaphase I centromere coorientation in interchange heterozygotes of *Triticum aestivum* L., 191.
F_1 hybrid weakness in the common bean, P. Gepts and F. A. Bliss, 447.
Foote, W. C., et al., Chromosome banding pattern homologies and NORs for the Bactrian camel, guanaco, and llama, 115.
FORTRAN program for computing genetic statistics from allelic frequency data, R. Whitkus, 142.
Four new mutations and a linkage map of species A of *Anopheles culicifacies*, R. K. Sakai, K. Akhtar, and C. J. Dubash, 140.
Frankel, J. S., Inheritance of trunk striping in the Sumatran tiger barb, *Barbus tetrazona*, 478.
Franklin, W. L., et al., Blood typing South American camelids, 369.
Frequency of polymorphisms for alleles encoding for liver proteins of domesticated mice, J. V. Neel, L. Baier, S. Hanash, and R. P. Erickson, 315.
Frey, K. J., et al., BASIC programs for estimating coefficients of inbreeding, parentage, and identity, 401.
Friedman, J., et al., Gene-centromere mapping in *Xenopus laevis*, 345.
Frierson, Jr., D. and R. D. McCall, High pressure neurologic syndrome type 2 seizure in mice, 89.
Fry, W. E., et al., Isozyme characterization of sexual and asexual *Phytophthora infestans* populations, 431.

Galun, E. and D. Aviv, An in vitro procedure to assign pigment mutations in *Nicotiana* to either the chloroplast or the nucleus, 135.
Gargiulo, M. K. and J. Hey, Sex-ratio changes in *Leptopilina heterotoma* in response to inbreeding, 209.
Garthwaite, R. L. and C. Sassaman, Independent assortment of four loci in the isopod, *Porcellio dilatatus*, 470.
Gaso, M.I., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* III. Invesion polymorphism of *D. pseudoobscura*, 258.
Gene-centromere mapping in *Xenopus laevis*, D. Reinschmidt, J. Friedman, J. Hauth, E. Ratner, M. Cohen, D. Krotoski, M. Miller, and R. Tompkins, 345.
Gene controlling β-galactosidase deficiency in pollen of oilseed rape, M. B. Singh and R. B. Knox, 199.

General Genetics

Associations between heterozygosity and morphological variance, 415.
Birthplace of genetics: a historical note, 67.
Chi-square and Mendel's experiments: where's the bias?, 307.
Confidence limits for estimates of gene linkage based on analysis of recombinant inbred strains, 436.
Mendel, the empiricist, 49.
More about Mendel's experiments: where is the bias?, 384.
Role of de Vries in the recovery of Mendel's work: was de Vries really an independent discoverer of Mendel?, 187.

Genes that affect the shape of the murine mandible: congenic strain analysis, D. W. Bailey, 107.
Gene structure, A. Esen (Rev.), 404.
Genetic analysis of coronary heart disease, K. M. Weiss (Rev.), 481.
Genetic analysis of crossfostering data with sire and dam records, B. Riska, J. J. Rutledge, and W. R. Atchley, 247.
Genetic analysis of the pinna of the human ear, E. E. Peeples, L. K. Dixon, and W. R. Buss, 390.
Genetic aspects of aflatoxin B_1 resistance in *Drosophila melanogaster*, J. P. Chinnici and P. D. Melone, 85.
Genetic control of red cell osmotic fragility, N. K. Norman and M. J. Dewey, 31.
Genetic differences between populations for a quantitative trait: studies with *Tribolium castaneum*, M. A. Toro, R. Diez, and C. Lopez-Fanjul, 451.
Genetic polymorphisms of 13 maize peroxidases, J. L. Brewbaker, C. Nagai, and E. H. Liu, 159.
Genetics of color mutations in the snake, *Elaphe obsoleta*, H. B. Bechtel and E. Bechtel, 7.
Genetics of electrophoretic variants in the annual sunflower, A. L. Kahler and C. L. Lay, 335.
Genetics of grain amaranths: I. Mendelian analysis of six color characteristics, P. A. Kulakow, H. Hauptli, and S. K. Jain, 27.
Genetics of grasshoppers, W. Chapco, 325.
Gepts, P. and F. A. Bliss, F_1 hybrid weakness in the common bean, 447.
Germplasm enhancement with potato haploids, S.A. Hermundstad and S. J. Peloquin, 463.
Giewartowski, J. A. and M. R. Alvarez, Cytological evidence of transient sex chromatin decondensation during compensatory hypertrophy in rat livers, 361.
Gill, B. S. and A. L. Rayburn, Use of biotin-labeled probes to map specific DNA sequences on wheat chromosomes, 78.
Gill, B. S., et al., An apparent meiotic mutation in a mesophyll cell protoclone of 'Russet Burbank' potato, 17.
Gonzalez, F., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* III. Inversion polymorphism of *D. pseudoobscura*, 258.
Gorman, M. B. and Y. T. Kiang, Inheritance of NADP-active isocitrate dehydrogenase isozymes in soybeans, 279.
Graham, J. H., et al., Triploid progeny of pumpkinseed × green sunfish hybrids, 251.
Gray, E. and M.N. Katanbaf, Sex ratio and distribution of sexes in swine, 36.
Gray mutant in the Mongolian gerbil, B. D. Leiper and R. Robinson, 473.
Griesbach, R. J., Polyploidy in *Phalaenopsis* orchid improvement, 74.
Grossman, M. and B. B. Bohren, Logistic growth curve of chickens: heritability of parameters, 459.
Grossman, M., et al., Logistic growth curve of chickens: comparison of techniques to estimate parameters, 397.
Gupta, P. K. and G. Fedak, Intergeneric hybrids between *Hordeum californicum* and *Triticum aestivum*, 365.
Guzman, J., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* III. Inversion polymorphism of *D. pseudoobscura*, 258.
Gyllensten, U., et al., Maternal inheritance of mitochondrial DNA during backcrossing of two species of mice, 321.

Hanash, S., et al. Frequency of polymorphisms for alleles encoding for liver proteins of domesticated mice, 315.
Hanna, W. W. and M. Dujardin, Cytology and reproductive behavior of pearl millet-napiergrass hexaploids × *Pennisetum squamulatum* trispecific hybrids, 382.
Hanna, W. W., et al., Dominant gene for rust resistance in pearl millet, 134.
Harper, J. A. and T. F. Savage, Ring lethal: an early embryonic failure to medium white turkeys, 474.
Harris, H., Biochemical separations and human genetics: the Wilhelmine E. Key 1984 invitational lecture, 2.
Hatfield, P. M., et al., Maternal inheritance of chloroplast DNA within the genus *Glycine*, subgenus *soja*, 373.
Hauptli, H., et al., Genetics of grain amaranths: I. Mendelian analysis of six color characteristics, 27.
Hauth, J., et al., Gene-centromere mapping in *Xenopus laevis*, 345.
Hayes, S., et al., SNOBOL4 programs for processing genetic records, tracing pedigrees, and sorting genotypes, 143.
Hedrick, P. W., Coat variants in cats: gametic disequilibrium between unlinked loci, 127.
Hellmich, II, R. L., et al., Selection for high and low-pollen hoarding honey bees, 155.
Hemphill, J., et al., SNOBOL4 programs for processing genetic records, tracing pedigrees, and sorting genotypes, 143.
Heritability of the postcapping stage in *Apis mellifera* and its relation to varroatosis resistance, R. F. A. Moritz, 267.
Heritable syndrome of skeletal defects in a family of Australian shepherd dogs, D. P. Sponenberg and A. T. Bowling, 393.
Hermundstad, S. A. and S. J. Peloquin, Germplasm enhancement with potato haploids. 463.
Hey, J. and M. K. Gargiulo, Sex-ratio changes in *Leptopilina heterotoma* in response to inbreeding, 209.
High pressure neorologic syndrome type 2 seizure in mice, R. D. McCall and D. Frierson, Jr., 89.
High resolution R-bands produced in chromosomes after incorporation of bromodeoxyuridine, A. Romagnano and C. L. Richer, 377.
Hilburn, L. R and P. W. Sattler, A program for calculating genetic distance and its use in determining significant differences in genetic similarity between two groups of populations, 400.
Hollander, P. J., et al., Blood typing South American camelids, 369.
Homozygosity and interstrain variation in the self-fertilizing hermaphroditic fish, *Rivulus marmoratus*, R. C. Vrijenhoek, 82.
Homozygous chromosomal aberrations in *Anopheles stephensi*, R. K. Sakai and F. Mahmood, 231.
Hordinsky, M. K., et al., Inheritance of melanocytic tumors in Duroc swine, 385.
Hsu, T.C., et al., Argentophilic structures of spermatogenesis in the yellow fever mosquito, 295.

Human Genetics

Biochemical separations and human genetics, 2.
Chromosomal inversion heteromorphisms of chromosomes 1, 9, and 16, in Delhi infants, 55.
Colorblindness in school children of an Indian population, 69.
Diphtheria toxin sensitivity in a human-mouse monochromosomal hybrid containing human chromosome 5, 329.
Genetic analysis of the pinna of the ear, 390.
Increased rates of sister chromatid exchanges induced by the herbicide 2, 4-D, 213.
Sex ratio and factors influencing family size in Japan, 141.

Hurtado-Hernandez, H. and P. G. Smith, Inheritance of mature fruit color in *Capsicum annuum* L., 211.

Increased rates of sister chromatid exchanges induced by the herbicide 2,4-D, T. E. Turkula and S. M. Jalal, 213.
Independent assortment of four loci in the isopod, *Porcellio dilatatus*, C. Sassaman and R. L. Garthwaite, 470.
Influence of selection and its relaxation on diet-induced thermogenesis in female chickens, E. A. Dunnington, D. J. Zelenka, and P. B. Siegel, 65.
Inheritance of brown stem rot resistance in soybeans, S. A. Sebastian and C. D. Nickell, 194.
Inheritance of electrophoretically detectable variants in ryegrass, N. O. Polans and R. W. Allard, 61.
Inheritance of *Equus asinus* serum albumin variants in hybrid offspring, A. T. Bowling and L. S. Nickel, 73.
Inheritance of heterodichogamy in the pecan, T. E. Thompson and L. D. Romberg, 456.
Inheritance of light pigmentation in squash, H. S. Paris, H. Nerson, Z. Karchi, and Y. Burger, 305.
Inheritance of mature fruit color in *Capsicum annuum* L., H. Hurtado-Hernandez and P. G. Smith, 211.
Inheritance of melanocytic tumors in Duroc swine, M. K. Hordinsky, G. Ruth, and R. King, 385.

Inheritance of NADP-active isocitrate dehydrogenase isozymes in soybeans, Y. T. Kiang and M. B. Gorman, 279.
Inheritance of nodulation and N_2 fixation in winged beans, E. E. Iruthayathas, K. Vlassak, and R. Laeremans, 237.
Inheritance of purple and purple-stripe testa colors in the peanut, W. D. Branch, 225.
Inheritance of the harlequin color in Great Dane dogs, D. P. Sponenberg, 224.
Inheritance of trunk striping in the Sumatran tiger barb, *Barbus tetrazona*, 478.
Inheritance of tweed, a modification of merle, in Australian shepherd dogs, D. P. Sponenberg and M. L. Lamoreux, 303.
Inheritance of two new mutations in cotton, J. S. Lee, 479.
Inherited agent of mutation with chromosome damage in wild mice, M. E. Wallace, 271.
Inherited nuclear cataracts in the Morgan horse, J. Beech and N. Irby, 371.
Intergeneric hybrids between *Hordeum californicum* and *Triticum aestivum*, P. K. Gupta and G. Fedak, 365.
In vitro procedure to assign pigment mutations in *Nicotiana* to either the chloroplast or the nucleus, D. Aviv and E. Galun, 135.
Irby, N. and J. Beech, Inherited nuclear cataracts in the Morgan horse, 371.
Iruthayathas, E. E., et al., Inheritance of nodulation and N_2 fixation in winged beans, 237.
Isozyme characterization of sexual and asexual *Phytophthora infestans* populations, P. .W. Tooley, W. E. Fry, and M. J. Villarreal Gonzales, 431.
Isozyme gene markers in *Juglans* species: inheritance of GPI and AAT in *J. regia* and *J. hindsii*, S. Arulsekar, D. E. Parfitt, and G. H. McGranahan, 103.

Jain, S. K., et al., Genetics of grain amaranths: I. Mendelian analysis of six color characteristics, 27.
Jain, S. K., Plant evolution (Rev.), 144.
Jalal, S. M. and T. E. Turkula, Increased rates of sister chromatid exchanges induced by the herbicide 2, 4-D, 213.
Jansons, V. K., et al., Diphtheria toxin sensitivity in a monochromosomal hybrid containing human chromosome 5, 329.
Jerszyk, M. M., et al., Congenital quiver, an inherited neurological defect in the chicken, 263.
Johnson, B. H., et al., New mutation causing jaundice in mice, 441.
Jouve, N. and A. Fominaya, Metaphase I centromere coorientation in interchange heterozygotes of *Triticum aestivum* L., 191.
Jouve, N. and J. A. Fernández, Meiotic pairing in hybrids of 6x-Triticale and the amphiploid *Hordeum chilense* × *Triticum turgidum* conv. *durum*, 63.

Kahler, A. L. and C. L. Lay, Genetics of electrophoretic variants in the annual sunflower, 335.
Kam-Morgan, L. N. W., et al., An apparent meiotic mutation in a mesophyll cell protoclone of 'Russet Burbank' potato, 17.
Kang, M. S., SAS program for calculating stability-variance parameters, 142.
Karchi, Z., et al., Inheritance of light pigmentation in squash, 305.
Kasperbauer, M. J. and G. C Eizenga, Chromosome pairing in tall fescue haploids derived by anther-panicle culture, 99.
Katanbaf, M. N and E. Gray, Sex ratio and distribution of sexes in swine, 36.
Kelly, M., et al., A PASCAL program that calculates heritability estimates using weighted linear regressions, 400.
Kerr, S. J., Mutant allele frequencies in rural Wisconsin cats, a correction, 216.
Key lecture: Biochemical separations and human genetics, H. Harris, 2.
Kiang, Y. T. and M. B. Gorman, Inheritance of NADP-active isocitrate dehydrogenase isozymes in soybeans, 279.
Kikuchi, H., et al., Temperature effects on the *Wx* protein level and amylose content in the endosperm of rice, 221.
King, R. A., et al: Decreased dopachrome oxidoreductase activity in yellow mice, 59.
King, R., et al., Inheritance of melanocytic tumors in Duroc swine, 385.
Knob-6, a cytological marker for chromosome 6 of *Gossypium hirsutum* L., M. S. Brown, S. A. Naqi, M. Y. Menzel, D. M. Stelly, 215.
Knox, R. B. and M. B. Singh, Gene controlling *B*-galactosidase deficiency in pollen of oil seed rape, 199.
Krotoski, D., et al., Gene-centromere mapping in *Xenopus laevis*, 345.
Kulakow, P. A., et al., Genetics of grain amaranths: I. Mendelian analysis of six color characteristics, 27.
Kulincevic, J. M., et al., Selection for high and low pollen-hoarding honey bees, 155.
Kumamoto, A. T., et al., Chromosomes of the Chacoan peccary, *Catagonus wagneri* (Rusconi), 95.

LaChance, L. E., et al., Polytene chromosomes of the screw-worm fly *Cochliomyia hominivorax*, 132.
Laeremans, R., et al. Inheritance of nodulation and N_2 fixation in winged beans, 237.
Lamoreux, M. L. and D. P. Sponenberg, Inheritance of tweed, a modification of merle, in Australian shepherd dogs, 303.
Lane, P. W. and E. M. Eicher, Location of plucked (*pk*) on chromosome 18 of the mouse, 476.
Lane, P. W., et al., Osteosclerosis, a recessive skeletal mutation on chromosome 19 in the mouse, 171.
Langhorst, L. J. and N. S. Fechheimer, Shankless, a new mutation on chromosome 2 in the chicken, 182.
Lasa, J. M., et al., Cytological identification of acrotrisomy in sugar beets, 227.
Lavania, U. C and A. K. Sharma, Arrangement of the interphase chromosomes in the nucleus, 395.
Lay, C. L. and A. L. Kahler, Genetics of electrophoretic variants in the annual sunflower, 335.
Leach, W. M., et al., Effects of 2.45 GHz microwaves on meiotic chromosomes of male CBA/CAY mice, 71.
Lee, J. A., Revision of the genetics of the hairiness-smoothness system of *Gossypium*, 123.
Lee, J. S., Inheritance of two new mutations in cotton, 479.
Leiper, B. D and Robinson, Gray mutant in the Mongolian gerbil, 473.
Leukocyte cell populations in hereditary muscular dystrophic chickens, R. R Dietert and B. G. Sanders, 285.
Levine, L., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* III. Inversion polymorphism of *D. pseudoobscura*, 258.
Linkage of loci affecting a murine liver protein and arylsulfatase B to chromosome 13, R. W. Elliott, W. L. Daniel, B. A. Taylor, and E. K. Novak, 243.
Linkage of *sym-2*, the symbiotic specificity locus of *Pisum sativum*, J. P. W. Young, 207.
Linkage of the incompatibility locus and red pigmentation genes in hazelnut, M. M. Thompson, 119.
Linkage of the major histocompatibility *(B)* complex and the nucleolar organizer in the chicken: assignment to a microchromosome, S. E. Bloom and L. D. Bacon, 146.
Linkage studies in *Apis mellifera* using biochemical and morphological markers, M. A. Del Lama, A. E. E. Soares, and M. A. Mestriner, 427.
Liu, E. H., et al., Genetic polymorphisms of 13 maize peroxidases, 159.
Localization of a dosage sensitive region for pyruvate kinase in *Drosophila melanogaster*, K. J. Rust and G. E. Collier, 39.
Location of plucked (*pk*) on chromosome 18 of the mouse, P. W. Lane and E. M. Eicher, 476.
Logistic growth curve of chickens: comparison of techniques to estimate parameters, M. Grossman, B. B. Bohren, and V. L. Anderson, 397.
Logistic growth curve of chickens: heritability of parameters, M. Grossman and B. B. Bohren, 459.
Lopez-Fanjul, C., et al., Genetic differences between populations for a quantitative trait: studies with *Tribolium castaneum*, 451.
Lysosomal mutations inhibit lipofuscinosis of the spleen in C57BL mice, F. Ahmed and J. G. M. Shire, 311.

Maciulis, A., et al., Chromosome banding pattern homologies and NORs for the Bactrian camel, guanaco, and llama, 115.
Maekawa, M., et al., Temperature effects on the *Wx* protein level and amylose content in the endosperm of rice, 221.
Mahmood, F. and R. K. Sakai, Homozygous chromosomal aberrations in *Anopheles stephensi*, 231.
Male mule foal qualifies as the offspring of a female mule and jack donkey, O. A. Ryder, L. G. Chemnick, A. T. Bowling, and K. Benirschke, 379.
Manikowska-Czerska, E., et al., Effects of 2.45GHz microwaves on meiotic chromosomes of male CBA/CAY mice, 71.
Mapping genes by meiotic and UV-induced mitotic recombination in *Coprinus cinereus*, J. D. Amirkhanian and J. W. Cowan, 348.
Marks, S. C., Jr., et al., Osteosclerosis, a recessive skeletal mutation on chromosome 19 in the mouse, 171.
Maternal inheritance of chloroplast DNA within the genus *Glycine*, subgenus *soja*, P. M. Hatfield, R. C. Shoemaker, and R. G. Palmer, 373.
Maternal inheritance of mitochondrial DNA

during backcrossing of two species of mice, U. Gyllensten, D. Wharton, and A. C. Wilson, 321.
Mau-Lastovicka, T., et al., Segregation distortion and linkage of *Citrus* and *Poncirus* isozyme genes, 289.
Mayr, B., et al., Nucleolus organizer regions in the chromosomes of the llama, 222.
McCall, R. D and D. Frierson, Jr., High pressure neurologic syndrome type 2 seizure in mice, 89.
McGranahan, G. H., et al., Isozyme gene markers in *Juglans* species: inheritance of GPI and AAT in *J. regia* and *J. hindsii*, 103.
McPheron, B. A. and S. H. Berlocher, Segregation and linkage of allozymes of *Rhagoletis tabellaria*, 218.
Meinhold, H., et al., Autosomal recessive inheritance of congenital goiter in Afrikander cattle, 12.
Meiotic nondisjunction and translocation segregation in dwarf *(dw/dw)* and control *T(1;13)70H* heterozygous mice, P. J. J. Wauben-Penris and F. A. van der Hoeven, 341.
Meiotic pairing in hybrids of 6x-Triticale and the amphiploid *Hordeum chilense* × *Triticum turgidum* conv. *durum*, J. A. Fernández and N. Jouve, 63.
Melone, P. D. and J. P. Chinnici, Genetic aspects of aflatoxin B_1 resistance in *Drosophila melanogaster*, 85.
Mendel, the empiricist, F. V. Monaghan and A. F. Corcos, 49.
Menzel, M. Y., et al.: *Knob-6*, a cytological marker for chromosome 6 of *Gossypium hirsutum* L., 215; Chromosome translocation breakpoint map of the *Gossypium hirsutum* genome, 406.
Meritt, D.A., et al., Chromosomes of the Chacoan peccary, *Catagonus wagneri* (Rusconi), 95.
Mertens, T. R., The birthplace of genetics: a historical note, 67.
Mestriner, M. A., et al., Linkage studies in *Apis mellifera* using biochemical and morphological markers, 427.
Metaphase I centromere coorientation in interchange heterozygotes of *Triticum aestivum* L., A. Fominaya and N. Jouve, 191.
Miller, M., et al., Gene-centromere mapping in *Xenopus laevis*, 345.
Miller, W. J., et al., Blood typing South American camelids, 369.
Molecular biology of development, C. L. Rutherford (Rev.), 481.
Monaghan, F. V. and A. F. Corcos: Mendel, the empiricist 49; Role of de Vries in the recovery of Mendel's work: was de Vries really an independent discoverer of Mendel?, 187; Chi-square and Mendel's experiments: where's the bias?, 307; More about Mendel's experiments: where is the bias?, 384.
Montgomery, N., et al., Congenital quiver, an inherited neurological defect in the chicken, 263.
More about Mendel's experiments: where is the bias?, A. Corcos and F. Monaghan, 384.
Moritz, R. F. A. Heritability of the postcapping stage in *Apis mellifera* aand its relation to varroatosis resistance, 267.
Motara, M. A., et al. Argentophilic structures of spermatogenesis in the yellow fever mosquito, 295.
Multiple alleles at the black locus in *Tribolium castaneum*, R. W. Beeman and S. M. Nanis, 472.
Mulvey, M., et al., Population genetics of *Biomphalaria straminea* in Hong Kong, 355.
Murine antibody induced-sex-ratio changes in *Drosophila melanogaster*, P. Pechan, 220.
Mutant gene in sorghum causing leaf "reddening" and increased protein concentration in the grain, G. Ejeta and J. Axtell, 301.

Nagai, C., et al., Genetic polymorphisms of 13 maize peroxidases, 159.
Nanis, S. M. and R. W. Beeman, Multiple alleles at the black locus in *Tribolium castaneum*, 472.
Naqi, S. A., et al., *Knob-6*, a cytological marker for chromosome 6 of *Gossypium hirsutum* L., 215.
Neel, J. V., et al., Frequency of polymorphisms for alleles encoding for liver proteins of domesticated mice, 315.
Nerson, H., et al., Inheritance of light pigmentation in squash, 305.
Neuhauser-Klaus, A. and R. Fahrig, Similar pigmentation characteristics in the specific locus and the mammalian spot test: a way to distinguish between induced mutation and recombination, 421.
New allozyme variability in Italian honey bees, W. S. Sheppard and S. H. Berlocher, 45.
New mutation causing jaundice in mice, A. M. Saxton, E. J. Eisen, B. H. Johnson, and J. G. Burkhart, 441.
Nickell, C. D. and S. A. Sebastian, Inheritance of brown stem rot resistance in soybeans, 194.
Nickel, L. S. and A. T. Bowling, Inheritance of *Equus asinus* serum albumin variants in hybrid offspring, 73.
Norman, N. K. and M. J. Dewey, Genetic control of red cell osmotic fragility, 31.
Note on the human sex ratio and factors influencing family size in Japan, M. I. Osman, 141.
Novak, E. K., et al., Linkage of loci affecting a murine liver protein and arylsulfatase B to chromosome 13, 243.
Nucleolus organizer regions in the chromosomes of the llama, B. Mayr, H. Auer, W. Schleger, R. Czaker, and H. Burger, 222.

Olds, D. P., et al., Decreased dopachrome oxidoreductase activity in yellow mice, 59.
Olvera, O., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* III. Inversion polymorphism of *D. pseudoobscura*, 258.
Osman, M. I., A note on the human sex ratio and factors influencing family size in Japan, 141.
Osteosclerosis, a recessive skeletal mutation on chromosome 19 in the mouse, S. C. Marks, Jr., M. F. Seifert, and P. W. Lane, 171.

Palmer, R. G., et al., Maternal inheritance of chloroplast DNA within the genus *Glycine*, subgenus *soja*, 373
Parfitt, D. E., et al., Isozyme gene markers in *Juglans* species: inheritance of GPI and AAT in *J. regia* and *J. hindsii*, 103.
Paris, H. S., et al., Inheritance of light pigmentation in squash, 305.
Parsons, J. E. and G. H. Thorgaard, Production of androgenetic diploid rainbow trout, 177.
Parvez, S. D., et al., Two new mutations and a linkage map of *Anopheles stephensi*, 205.
PASCAL program that calculates heritability estimates using weighted linear regressions, G. J. Vandemark, M. Kelly, and R. B. Eckhardt, 400.
Pathak, S., et al., Argentophilic structures of spermatogenesis in the yellow fever mosquito, 295.
Patton, J. L., et al., Associations between heterozygosity and morphological variance, 415.
Pechan, P., Murine antibody induced-sex-ratio changes in *Drosophila melanogaster*, 220.
Peeples, E. E., et al., Genetic analysis of the pinna of the human ear, 390.
Peloquin, S. J. and S. A. Hermundstad, Germplasm enhancement with potato haploids, 463.
Percy, R. G. and L. S. Bird, Rust resistance expression in cotyledons, petioles, and stems of *Gossypium hirsutum* L., 202.
Plant evolution, S. K. Jain (Rev.), 144.
Plant genetic resources, D. H. Smith, Jr. (Rev.), 404.

Plant Genetics

Amaranths: genetics of six color characteristics, 27.
Barley: intergeneric hybrids between *Hordeum californicum* and *Triticum aestivum*, 365; meiotic pairing in hybrids of 6x-Triticale and the amphiploid *H. chilense* × *Triticum turgidum* conv. *durum*, 63.
Bean: F_1 hybrid weakness in the common, 447.
Citrus: segregation distortion and linkage of *Citrus* and *Poncirus* isozyme genes, 289.
Coix gigantea: typical meiotic nondisjunction and its consequences, 387.
Coprinus cinereus: mapping genes by meiotic and UV-induced mitotic recombination, 348.
Cotton: revision of the genetics of the hairiness-smoothness system in *Gossypium* species, 123; rust resistance expression in cotyledons, petioles, and stems of *G. hirsutum*, 202; *Knob-6*, a cytological marker for chromosome 6 of *G. hirsutum*, 215; chromosome translocation breakpoint map of *G. hirsutum* genome, 406; inheritance of two new mutations, 479.
Fescue: chromosome pairing in tall haploids derived by anther-panicle culture, 99.
Juglans: isozyme gene markers in species: inheritance of GPI and AAT in *J. regia* and *J. hindsii*, 103.
Maize: genetic polymorphisms of 13 peroxidases, 159.
Millet: dominant gene for rust resistance in pearl, 134; cytology and reproductive behavior of pearl millet-napiergrass hexaploids × *Pennisetum squamulatum* trispecific hybrids, 382.
Nicotiana: an in vitro procedure to assign pigment mutations to either the chloroplast or the nucleus, 135.
Nuts: isozyme markers in two species of walnut, see *Juglans*, 103; linkage of the incompatibility locus and red pigmentation genes

in hazelnut, 119; inheritance of heterodichogamy in the pecan, 456.
Oilseed rape: gene controlling β-galactosidase deficiency in pollen, 199.
Orchid: polyploidy in *Phalaenopsis* improvement, 74
Peanut: inheritance of purple and purple-stripe testa colors, 225.
Pennisetum: cytology and reproductive behavior of pearl millet-napiergrass hexaploids *P. squamulatum* trispecific hybrids, 382.
Petunia integrifolia: pseudo-self compatibility, 468.
Phytophthora infestans: isozyme characterization of sexual and asexual populations, 431.
Pisum sativum: linkage of *sym-2*, the symbiotic specificity locus, 207.
Potatoes: apparent meiotic mutation in a mesophyll cell protoclone of 'Russet Burbank', 17; germplasm enhancement with haploids, 463.
Redpepper: inheritance of mature fruit color in *Capsicum annuum*, 211.
Rice: temperature effects on the *Wx* protein level and amylose content in the endosperm, 221.
Rye: arrangement of interphase chromosomes in the nucleus of *Secala cereale*, 395.
Ryegrass: inheritance of electrophoretically detectable variants, 61.
Sorghum: mutant gene causing leaf "reddening" and increased grain protein concentration, 301.
Soybeans: inheritance of brown stem rot resistance, 194; inheritance of NADP-active isocitrate dehydrogenase isozymes, 279; maternal inheritance of chloroplast DNA in *Glycine*, subgenus *soja*, 373.
Squash: inheritance of light pigmentation, 305.
Sugar beets: cytological identification of acrotrisomy, 227.
Sunflower: genetics of electrophoretic variants in the annual, 335.
Wheat: meiotic pairing in hybrids of 6x-Triticale and the amphiploid *Hordeum chilense* × *Triticum turgidum* conv. *durum*, 63; use of biotin-labeled probes to map specific DNA sequences on chromosomes, 78; metaphase I centromere coorientation in interchange heterozygotes of *Triticum aestivum* L., 191; intergeneric hybrids between *Hordeum californicum* and *Triticum aestivum*, 365.
Winged beans: inheritance of nodulation and N_2 fixation, 237.

Polans, N. O. and R. W. Allard, Inheritance of electrophoretically detectable variants in ryegrass, 61.
Polyploidy in *Phalaenopsis* orchid improvement, R. J. Griesbach, 74.
Polytene chromosomes of the screw-worm fly, *Cochliomyia hominiovorax*, V. Dev, L. E. LaChance, C. J. Whitten, 132.
Population genetics of *Biomphalaria straminea* in Hong Kong, D. S. Woodruff, M. Mulvey, and M. W. Yipp, 355.
Potluri, V. R., et al., Chromosomal heteromorphisms in Delhi infants: III. Qualitative analysis of C-band inversion heteromorphisms of chromosomes 1, 9, and 16, 55.
Principal component analysis program, P. Capy, 401.
Production of androgenetic diploid rainbow trout, J. E. Parsons and G. H. Thorgaard, 177.
Program for calculating genetic distance, and its use in determining significant differences in genetic similarity between two group of populations, P. W. Sattler and L. R. Hilburn, 400.
Pseudo-self compatibility (PSC) in *Petunia integrifolia*, M. N. Dana and P. D. Ascher, 468.

Rajanikumari, J., et al., Familial appraisal of colorblindness in school children of an Indian population, 69.
Rao, T. V., et al., Familial appraisal of colorblindness in school children of an Indian population, 69.
Ratner, E., et al., Gene-centromere mapping in *Xenopus laevis*, 345.
Rayburn, A. L. and B. S. Gill, Use of biotin-labeled probes to map specific DNA sequences on wheat chromosomes, 78.
Reinschmidt, D., et al., Gene-centromere mapping in *Xenopus laevis*, 345.
Revision of the genetics of the hairiness-smoothness system of *Gossypium*, J. A. Lee, 123.
Richer, C. L. and A. Romagnano: Cell synchronization and dynamic G-banding of equine chromosomes by bromodeoxyuridine, 375; High resolution R-bands produced in equine chromosomes after incorporation of bromodeoxyuridine, 377.
Richmond, K. L., et al., Chromosome translocation breakpoint map of the *Gossypium hirsutum* genome, 406.
Ricketts, M. H., et al., Autosomal recessive inheritance of congenital goiter in Afrikander cattle, 12.
Ring lethal: an early embryonic failure in medium white turkeys, T. F. Savage and J. A. Harper, 474.
Riska, B., et al., Genetic analysis of crossfostering data with sire and dam records, 247.
Robinson, R. and B. D. Leiper, Gray mutant in the Mongolian gerbil, 473.
Robinson, R.: Fertile male tortoiseshell cats, 137; Chinese crested dog, 217.
Rockwell, R. F., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* III. Inversion polymorphism of *D. pseudoobscura*, 258.
Role of de Vries in the recovery of Mendel's work: was de Vries really an independent discovered of Mendel?, A. Corcos and F. Monaghan, 187.
Romagnano, A. and C. L. Richer: Cell synchronization and dynamic G-banding of equine chromosomes by bromodeoxyuridine, 375; high resolution R-bands produced in equine chromosomes after incorporation of bromodeoxyuridine, 377.
Romagosa, I., et al., Cytological identification of acrotrisomy in sugar beets, 227.
Romberg, L. D. and T. E. Thompson, Inheritance of heterodichogamy in pecan, 456.
Rothenbuhler, W. C., et al., Selection for high and low pollen-hoarding honey bees, 155.
Rust, K. J. and G. E. Collier, Localization of a dosage sensitive region for pyruvate kinase in *Drosophila melanogaster*, 39.
Rust resistance expression in cotyledons, petioles, and stems of *Gossypium hirsutum* L., R. G. Percy and L. S. Bird, 202.
Rutherford, C. L., Molecular biology of development (Rev.), 481.
Ruth, G., et al., Inheritance of melanocytic tumors in Duroc swine, 385.
Rutledge, J. J., et al., Genetic analysis of crossfostering data with sire and dam records, 247.
Ryan, S. L., et al., Aberrant segregation of *R*-locus genes in male progeny from incompatible crosses in *Mormoniella*, 21.
Ryder, O. A., et al., Male mule foal qualifies as the offspring of a female mule and jack donkey, 379.

Sakai, R. K. and F. Mahmood, Homozygous chromosomal aberrations in *Anopheles stephensi*, 231.
Sakai, R. K., et al., Four new mutations and a linkage map of species A of *Anopheles culicifacies*, 140; Two new mutations and a linkage map of *Anopheles stephensi*, 205.
Sanders, B. G. and R. R. Dietert, Leukocyte cell populations in hereditary muscular dystrophic chickens, 285.
Sano, Y, et al., Temperature effects on the *Wx* protein level and amylose content in the endosperm of rice, 221.
Sapre, A. B. and S. S. Barve, Typical meiotic nondisjunction and its consequences in *Coix gigantea*, 387.
SAS program for calculating stability-variance parameters, M. S. Kang, 142.
Sassaman, C. and R. L. Garthwaite, Independent assortment of four loci in the isopod, *Porcellio dilatatus*, 470.
Sattler, P. W. and L. R. Hilburn, A program for calculating genetic distance, and its use in determining significant differences in genetic similarity between two groups of populations, 400.
Satya-Prakash, K. L., et al., Argentophilic structures of spermatogenesis in the yellow fever mosquito, 295.
Saul II, G. B., et al., Aberrant segregation of *R*-locus genes in male progeny from incompatible crosses in *Mormoniella*, 21.
Savage, T. F. and J. A. Harper, Ring lethal: an early embryonic failure in medium white turkeys, 474.
Saxton, A.M., et al., New mutation causing jaundice in mice, 441.
Schleger, W., et al., Nucleolus organizer regions in the chromosomes of the llama, 222.
Schultz, R. J., et al., Triploid progeny of pumpkinseed × green sunfish hybrids, 251.
Schulz, K., et al., Autosomal recessive inheritance of congenital goiter in Afrikander cattle, 12.
Searle, B. M., et al., Diphtheria toxin sensitivity in a monochromosomal hybrid containing human chromosome 5, 329.
Sebastian, S. A. and C. D. Nickell, Inheritance of brown stem rot resistance in soybeans, 194.
Segregation and linkage of allozymes of *Rhagoletis tabellaria*, B. A. McPheron and S. H. Berlocher, 218.
Segregation distortion and linkage of *Citrus* and *Poncirus* isozyme genes, A. M. Torres, T. Mau-Lastovicka, T. E. Williams, and R. K. Soost, 289.
Seifert, M. F., et al., Osteosclerosis, a reces-

sive skeletal mutation on chromosome 19 in the mouse, 171.
Selection for high and low pollen-hoarding honey bees, R. L. Hellmich, II, J. M. Kulincevic, and W. C. Rothenbuhler, 155.
Sex ratio and distribution of sexes in swine, E. Gray and M. N. Katanbaf, 36.
Sex-ratio changes in *Leptopilina heterotoma* in response to inbreeding, J. Hey and M. K. Gargiulo, 209.
Shankless, a new mutation on chromosome 2 in the chicken, L. J. Langhorst and N. S. Fechheimer, 182.
Sharma, A. K. and U. C. Lavania, Arrangement of the interphase chromosomes in the nucleus, 395.
Shepard, J. F., et al., An apparent meiotic mutation in a mesophyll cell protoclone of 'Russet Burbank' potato, 17.
Sheppard, W. S. and S. H. Berlocher, New allozyme variability in Italian honey bees, 45.
Shire, J. G. M. and F. Ahmed, Lysosomal mutations inhibit lipofuscinosis of the spleen in C57BL mice, 311.
Shoemaker, R. C., et al., Maternal inheritance of chloroplast DNA with the genus *Glycine*, subgenus *soja*, 373.
Siegel, P. B., et al., Influence of selection and its relaxation on diet-induced thermogenesis in female chickens, 65.
Significance of a diploid number of 20 in the peccary *Catagonus wagneri*, N. B. Todd, 310.
Silver, J., Confidence limits for estimates of gene linkage based on analysis of recombinant inbred strains, 436.
Similar pigmentation characteristics in the specific locus and the mammalian spot test, a way to distinguish between induced mutation and recombination, R. Fahrig and A. Neuhauser-Klaus, 421.
Singh, I. P., et al., Chromosomal heteromorphisms in Delhi infants: III. Qualitative analysis of C-band inversion heteromorphisms of chromosomes 1, 9, and 16, 55.
Singh, M. B. and R. B. Knox, Gene controlling β-galactosidase deficiency in pollen of oilseed rape, 199.
Smith, Jr., D. H., Plant genetic resources (Rev.), 404.
Smith, M. F., et al., Associations between heterozygosity and morphological variance, 415.
Smith, P. G. and H. Hurtado-Hernandez, Inheritance of mature fruit color in *Capsicum annuum* L., 211.
Smyth, Jr., J. R., et al., Congenital quiver, an inherited neurological defect in the chicken, 263.
SNOBOL4 programs for processing genetic records, tracing pedigrees, and sorting genotypes, E. D. Styles, J. Hemphill, and S. Hayes, 143.
Soares, A. E. E., et al., Linkage studies in *Apis mellifera* using biochemical and morphological markers, 427.
Soost, R. K., et al., Segregation distortion and linkage of *Citrus* and *Poncirus* isozyme genes, 289.
Sponenberg, D. P. and A. T. Bowling, Heritable syndrome of skeletal defects in a family of Australian shepherd dogs, 393.
Sponenberg, D. P. and M. L. Lamoreux, Inheritance of tweed, a modification of merle, in Australian shepherd dogs, 303.
Sponenberg, D. P., Inheritance of the harlequin color in Great Dane dogs, 224.
Srikumari, C. R., et al., Familial appraisal of colorblindness in school children of an Indian population, 69.
Stelly, D. M., et al., *Knob-6*, a cytological marker for chromosome 6 of *Gossypium hirsutum* L., 215.
Styles, E. D., et al., SNOBOL4 programs for processing genetic records, tracing pedigrees, and sorting genotypes, 143.

Taylor, B. A., et al., Linkage of loci affecting a murine liver protein and arylsulfatase B to chromosome 13, 243.
Temperature effects on the *Wx* protein level and amylose content in the endosperm of rice, Y. Sano, M. Maekawa, and H. Kikuchi, 221.
Thompson, M. M., Linkage of the incompatibility locus and red pigmentation genes in hazelnut, 119.
Thompson, T. E. and L. D. Romberg, Inheritance of heterodichogamy in pecan, 456.
Thorgaard, G. H. and J. E. Parsons, Production of androgenetic diploid rainbow trout, 177.
Todd, N. B., Significance of a diploid number of 2310n the peccary *Catagonus wagneri*, 310.
Tompkins, R., et al., Gene-centromere mapping in *Xenopus laevis*, 345.
Tooley, P. W., et al., Isozyme characterization of sexual and asexual *Phytophthora infestans* populations, 431.
Toro, M. A., et al., Genetic differences between populations for a quantitative trait: studies with *Tribolium castaneum*, 451.
Torres, A. M., et al., Segregation distortion and linkage of *Citrus* and *Poncirus* isozyme genes, 289.
Townsend, D., et al., Decreased dopachrome oxidoreductase activity in yellow mice, 59.
Triploid progeny of pumpkinseed × green sunfish hybrids, R. M. Dawley, J. H. Graham, and R. J. Schultz, 251.
Tsuchiya, T., et al., Cytological identification of acrotrisomy in sugar beets, 227.
Turkula, T. E. and S. M. Jalal, Increased rates of sister chromatid exchanges induced by the herbicide 2, 4-D, 213.
Two new mutations and a linkage map of *Anopheles stephensi*, S. D. Parvez, K. Akhtar, and R. K. Sakai, 205.
Typical meiotic nondisjunction and its consequences in *Coix gigantea*, A. B. Sapre and S. S. Barve, 387.

Use of biotin-labeled probes to map specific DNA sequences on wheat chromosomes, A. L. Rayburn and B. S. Gill, 78.

Vandemark, G. J., et al., A PASCAL program that calculates heritability estimate using weighted linear regressions, 400.
van der Hoeven, F. A. and P. J. J. Wauben-Penris, Meiotic nondisjunction and translocation segregation in dwarf *(dw/dw)* and control *T(1;13)70H* heterozygous mice, 341.
van Jaarsveld, P. P., et al., Autosomal recessive inheritance of congenital goiter in Afrikander cattle, 12.
van Vleck, L. D. and L. Craig, Evidence for inheritance of the red dun dilution in the horse, 138.
van Zyl, A., et al., Autosomal recessive inheritance of congenital goiter in Afrikander cattle, 12.
Villarreal Gonzalez, M. J., et al., Isozyme characterization of sexual and asexual *Phytophthora infestans* populations, 431.
Vlassak, K., et al., Inheritance of nodulation and N_2 fixation in winged beans, 237.
Vrijenhoek, R. C., Homozygosity and interstrain variation in the self-fertilizing hermaphroditic fish, *Rivulus marmoratus*, 82.

Wallace, M. E., An inherited agent of mutation with chromosome damage in wild mice, 271.
Wauben-Penris, P. J. J. and F. A. van der Hoeven, Meiotic nondisjunction and translocation segregation in dwarf *(dw/dw)* and control *T(1;13)70H* heterozygous mice, 341.
Weber, G. P., et al., BASIC programs for estimating coefficients of inbreeding, parentage, and identity, 401.
Weiss, K. M., Genetic analysis of coronary heart disease (Rev.), 481.
Wells, H. D., et al., Dominant gene for rust resistance in pearl millet, 134.
Wharton, D., et al., Maternal inheritance of mitochondrial DNA during backcrossing of two species of mice, 321.
Whitkus, R., FORTRAN program for computing genetic statistics from allelic frequency data, 142.
Whitten, C. J., et al., Polytene chromosomes of the screw-worm fly, *Cochliomyia hominivorax*, 132.
Whole earth catalog of genes, R. B. Eckhardt (Rev.), 76.
Williams, T. E., et al., Segregation distortion and linkage of *Citrus* and *Poncirus* isozyme genes, 289.
Wilson, A. C., et al., Maternal inheritance of mitochondrial DNA during backcrossing of two species of mice, 321.
Woodruff, D. S., et al., Population genetics of *Biomphalaria straminea* in Hong Kong, 355.

Yipp, M. W., et al., Population genetics of *Biomphalaria straminea* in Hong Kong, 355.
Young, J. P. W., Linkage of *sym-2*, the symbiotic specificity locus of *Pisum sativum*, 207.
Young, R. S., Catalog of chromosomal variants in man (Rev.), 76.

Zelenka, D. J., et al., Influence of selection and its relaxation on diet-induced thermogenesis in female chickens, 65.
Zink, R. M., et al., Associations between heterozygosity and morphological variance, 415.